

Amendments to the Specification:

Beginning on page 1 line 4, please replace the Title with the following amended Title:

INTRALUMENAL MATERIAL REMOVAL SYSTEMS
HAVING AN ADJUSTABLE DIAMETER AND METHODS

Beginning on page 9 line 23, please replace the brief description of the drawings for Figures 21 to 27B with the following amended descriptions:

Figure 21 illustrates an enlarged, perspective view of the distal end of a coiled metallic catheter with a dual cutter assembly in the expanded configuration;

Figure 22 illustrates an enlarged, perspective, exploded view of a the cutter assembly of Figure 21 ~~the present invention~~ and its relationship to a drive shaft and catheter;

Figure 23 shows a cross-sectional internal view of a the cutter assembly ~~of the~~ shown in Figure 21 and its relationship to a drive shaft and catheter;

Figure 24 shows an enlarged, perspective view of ~~another embodiment of an~~ the expandable cutter shown in Figure 21, highlighting the central block and cutting members assembly;

Figure 25A illustrates an enlarged perspective view of another embodiment of ~~a~~ the distal cutter shown in Figure 21;

Figure 25B shows a front view of the distal cutter of Figure 25A;

Figure 26A shows ~~an alternative embodiment of an~~ the expandable cutting assembly shown in Figure 21 in the contracted configuration;

Figure 26B provides a front perspective of the ~~alternative~~ embodiment illustrated in Figure 26A;

Figure 27A shows ~~an alternative embodiment of an~~ the expandable cutting assembly shown in Figure 21 in the expanded configuration; and

Figure 27B provides a front perspective of the ~~alternative~~ embodiment illustrated in Figure 27A.

Beginning on page 47 line 3, please replace the Abstract with the following amended Abstract:

~~Intraluminal material removal systems are provided.~~ The intraluminal material removal system includes a cutter assembly positionable in the lumen of a mammalian subject and operably connected to system controls. ~~One composite cutter assembly comprises a distal, fixed diameter cutter and a proximal, an adjustable diameter cutter, the~~ The cutter assembly ~~being is~~ axially advanceable by translating the drive shaft and rotatable by rotating the drive shaft. One cutter assembly comprises an ~~The adjustable cutter cutting assembly that~~ is adjustable between a smaller diameter condition and a larger diameter condition by rotation of the drive shaft in opposite directions. The cutter may thus be introduced to and withdrawn from the material removal site in a retracted, smaller diameter condition that facilitates translation and navigation of the device through various lumens. The adjustable cutting assembly may be selectively expanded at the material removal site to facilitate cutting, removal and aspiration of the occlusive material. One composite cutter assembly comprises both a distal, fixed diameter cutter and a proximal adjustable diameter cutter. ~~Temperature sensing at the material removal site and automated control features are also disclosed.~~